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# PATENT COOPERATION TREATY



## **PCT**

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

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INTERNAT	IONAL PRELIMINARY EXAM	NATION REPORT
	(PCT Article 36 and Rule 70	)
Applicant's or agent's file reference 2002P20296WO	FOR FURTHER ACTION See No Prelimina	tification of Transmittal of Intern rry Examination Report (Form PCT/IPE)
International application No. PCT/DE2003/003913	International filing date (day/month/year 26 November 2003 (26.11.2003)	Priority date (day/month/year)
International Patent Classification (IPC) or a G05F 1/571	national classification and IPC	
Applicant	SIEMENS AKTIENGESELLSCHA	FT
This report is also accompan amended and are the basis fo 70.16 and Section 607 of the	sheets, including this coveried by ANNEXES, i.e., sheets of the descriport this report and/or sheets containing rectiff Administrative Instructions under the PCT shall of sheets.	tion, claims and/or drawings which have
IV Lack of unity of inverse view Reasoned statement citations and explanation view Certain documents of the company of the certain defects in the certain defect	of opinion with regard to novelty, inventive ention under Article 35(2) with regard to novelty, ations supporting such statement	
Date of submission of the demand	Date of completion	of this report
11 May 2004 (11.05.26	20.0	ebruary 2005 (22.02.2005)
Name and mailing address of the IPEA/EP	Authorized officer	

Form PCT/IPEA/409 (cover sheet) (July 1998)

### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/DE2003/003913

I. Ba	I. Basis of the report						
1. With regard to the elements of the international application:*							
	] 1	the international application as originally filed					
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	1	pages _	1-8	_, as originally filed			
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$\triangleright$		the clain	ms:				
	1	pages _	1-6	, as originally filed			
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11 T	he inthese	the lang the lang the lang or 55.3 regard ninary ex	Iguage of a translation furnished for the purposes of international search (under Rule 23.1(b)). Iguage of publication of the international application (under Rule 48.3(b)). Inguage of the translation furnished for the purposes of international preliminary examination (3).  It is any nucleotide and/or amino acid sequence disclosed in the international applicate examination was carried out on the basis of the sequence listing:	which is:  [under Rule 55.2 and/			
]   	contained in the international application in written form.						
	$\exists$		ogether with the international application in computer readable form.  hed subsequently to this Authority in written form.				
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		The sta	tatement that the information recorded in computer readable form is identical to the writter furnished.	n sequence listing has			
4.		The an	mendments have resulted in the cancellation of:				
			the description, pages				
			the claims, Nos.				
			the drawings, sheets/fig				
5. [		This rep	eport has been established as if (some of) the amendments had not been made, since they have d the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**	been considered to go			
1	* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16 and 70.17).						
**/	4ny r	replacem	nent sheet containing such amendments must be referred to under item 1 and annexed to this rep	ort.			

### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/DE 03/03913

v. 	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicabil citations and explanations supporting such statement	lity;

1.	Statement			
	Novelty (N)	Claims	4-6	YES
	Inventive step (IS)	Claims	1-3	NO
		Claims		YES
		Claims	1-6	NO
	Industrial applicability (IA)	Claims	1-6	YES
		Claims		NO NO
2.	Citations and explanations			

#### Citations and explanations

The following documents were cited in the 1. international search report:

D1: DE 100 49 994 A (ENDRESS HAUSER GMBH CO) 11 April 2002 (2002-04-11)

D2: EP-A-0 545 042 (MOTOROLA INC) 9 June 1993 (1993-06-09)

- Document D1 is considered the prior art closest to 2. the subject matter of independent claim 1.
- 2.1. Document D1 discloses a voltage supply circuit (D1, figure 1)
  - a) with a plurality of voltage supply components Q1, Q2 for supplying voltage to various assemblies and/or interfaces V1, V2 in an electric system (D1, column 1, lines 60-68),
  - b) with a control circuit 1, 2, 3 for controlling a first voltage supply component (D1, column 2, lines 3-16),

- c) said control circuit being linked to those voltage supply outputs U12, U21, GND of various voltage supply components between which a maximum voltage difference occurs during operation (D1, figure 1),
- d) and said control circuit being configured such that, when the maximum voltage difference deviates from a reference value ΔU12, the first voltage supply component is readjusted so that the deviation is reduced (D1, column 2, lines 47-56 and column 4, lines 50-56).
- 2.2. Thus the combination of features described in claim 1 is known from document D1. Consequently, claim 1 does not satisfy the requirements of PCT Article 33(2) because the subject matter of this claim is not novel.
- 3. Dependent claims 2 and 3 do not contain any additional features that, in combination with the features of any claim to which they refer back, meet the PCT requirements for novelty (PCT Article 33(2)). The reasons are as follows:
  - Claim 2: The control circuit is configured such that the maximum voltage difference U12-UGND essentially does not exceed a prescribed maximum voltage (D1, column 2, lines 52-54).
  - Claim 3: Document D1 discloses an emergency shut-off device 2 for shutting off the voltage supply when the maximum voltage difference exceeds a prescribed maximum voltage (D1, column 2, lines 52-54).

- 4. Document D1 is considered the prior art closest to the subject matter of independent claim 4.
- 4.1. The subject matter of claim 4 differs from the voltage supply circuit disclosed in document D1 merely by the feature wherein said circuit is used to supply voltage to a communications system.
- 4.2. Claim 4 thus relates to a novel use of the voltage supply circuit known from D1.
- 4.3. However, a similar voltage supply circuit 200 with a plurality of voltage supply components 204, 206 and with a control circuit 208 for supervising and limiting voltage was already used to supply voltage to a communications system 218 (cf. document D2, column 3, lines 4-46 and figure 2).
- 4.4. Accordingly, the subject matter of claim 4 consists merely in the fact that a device that is known from D2 (communications system with voltage supply) is replaced by an element (voltage supply) that is known from D1, the properties of which make it obviously useful for the purpose in question (analogous exchange).
- 4.5. Therefore, the subject matter of claim 4 does not involve an inventive step (PCT Article 33(3)).
- 5. The features of dependent claims 5 and 6 merely define further obvious uses of the voltage supply circuit known from document D1. Therefore, the subject matter of said claims does not involve an inventive step and thus does not fulfill the criterion set out in PCT Article 33(3)).